Extend 3-30-11 mr

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SPRINGS SAMPLING FIELD SHEET

on Information FQ-2010-11-01-18

STATION ID: 11386 DATE: 12/14/10 (MM/DD/YYYY) TIME (EST): 12:22 (24 hr) (Final field measurements; start of sampling)

SPRING NAME: MORRISON VENT ID: _____

WEATHER CONDITIONS (Circle One) (Clear) Partly Cloudy Cloudy Rain

Water Quality Measurements

Secchi Depth: 13.5L (meters) Secchi Visible on Bottom Yes No (Circle One)

Stage (if available): _____ (Feet)

Estimated depth in vent from which laboratory samples were collected: 13.5 (meters)

Analytes collected for this site are as listed per the container inventory, including QA/QC samples (Yes) No

Field Measurements (if field measurement result has to be qualified, enter F next to the value below):

Estimated Depth (meters)	Meter Id	Measurement #	pH (s.u.)	D.O. (mg/L)	% D.O.	Temperature (°C)	Conductivity (uS/cm)
13.5	QD00976 - QT00970	7	7.2	3.28	34.9	18.19	213

ple Preservation

s a new 0.45-micron capsule filter used to collect the final metals and nutrients/anions samples? Yes (No) (Circle One)

re all appropriate samples preserved within 15 minutes? (Yes) No

re total nutrient samples preserved with sulfuric acid? (Yes) No Total volume added 1 (mL) Final pH <2 (s.u.)

re filtered nutrient samples preserved with sulfuric acid? Yes No Total volume added ____ (mL) Final pH ____ (s.u.)

e total metal samples preserved with nitric acid? (Yes) No Total volume added 1 (mL) Final pH <2 (s.u.)

e filtered metal samples preserved with nitric acid? Yes No Total volume added ____ (mL) Final pH ____ (s.u.)

dditional bottles for the nutrient or metal samples were preserved, note volume of acid added and final pH for each one in the Comments)

e all appropriate samples, in accordance with the container inventory, put on wet ice at 4°C? (Yes) No

MMENTS:
-Cold
-HNO_3 lot# 1110040 exp: 2/17/19
-H_2SO_4: from Twin towers lab

QA/QC TAKEN? No

TIME COLLECTED _____

(Circle One)

EQUIPMENT BLANK

FIELD BLANK

Blanks collected in accordance with

12/14/10

MORRISON SPRING

SPRG1010 2ND MAG. SPRING 12:22

nplers Signatures (all team members present):

STATION ID: 11386 DATE: 12/14/10 TIME (EST): 12:22

CHEMICAL STABILITY MONITORING

#	TIME (00:00)	pH (s.u.)	TEMP. (°C)	SP. COND (uS/cm)	DO (mg/L)	% SAT DO (%)	COMMENTS
1	12:10	7,05	17,80	213	3,37	35,6	began purging @ 11:59
2	12:12	7,07	17,80	214	3,34	35,4	air bubbles in tubing
3	12:14	7,12	17,68	215	3,11	32,6	
4	12:16	7,14	17,70	214	3,31	34,7	
5	12:18	7,18	17,43	215	3,28	34,2	
6	12:20	7,18	18,09	215	3,27	34,6	
7	12:22	7,22	18,19	213	~~3,22~~ 3,28	~~34,0~~ 34,9	
8							
9							
10							
11							
12							
13							
14							
15							

Meter Id: QD00976- Q+00970 Field Measurements Analyzed By: LH (initials)

Field Measurements Recorded By: LH (initials)

The final three measurements will be evaluated for each of the field parameters listed above (only the values in mg/L for DO) to ensure that representative measurements have been collected for a site. The lowest and highest values for the three measurements must be within 20% when calculating the relative percent difference (RPD). If these values are not within 20%, the final field measurement value will be qualified as being estimated with an F value qualifier

$$\frac{0.76}{17.81} \quad 4\% \qquad RPD = \frac{\text{(Highest Value – Lowest Value)}}{\text{(Mean Value of Highest and Lowest Values)}} \times 100\%$$